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Sunken history: shipwreck Scheurrak SO1 in the late sixteenth-century Dutch maritime cultural landscape

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Citation

Burger, G. (2025, April 8). *Sunken history: shipwreck Scheurrak SO1 in the late sixteenth-century Dutch maritime cultural landscape*. Retrieved from <https://hdl.handle.net/1887/4210726>

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Sunken History

Shipwreck Scheurrak SO1 in the late sixteenth-century
Dutch maritime cultural landscape

Geke Burger

Cover design and lay-out: Joey Roberts | www.ridderprint.nl
Print: Ridderprint | www.ridderprint.nl

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Sunken History
Shipwreck Scheurrak SO1 in the late sixteenth-century
Dutch maritime cultural landscape

Proefschrift

ter verkrijging van
de graad van doctor aan de Universiteit Leiden,
op gezag van rector magnificus prof. dr. ir. H. Bijl,
volgens besluit van het college voor promoties

te verdedigen op dinsdag 8 april 2025
klokke 13:00 uur

door
Geertje Burger
geboren te Goes
op 22 juni 1995

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Copromotor

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Het onderzoek voor dit proefschrift werd uitgevoerd binnen het project *Scheurrak SO1 in the maritime cultural landscape* (2020-2024) en werd gefinancierd door de Rijksdienst voor het Cultureel Erfgoed (RCE).

The sun comes up
it's a new day dawning
it's time to sing Your song again

– Matt Redman, *10.000 Reasons* (2013)

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Acknowledgements

Acknowledgements

Het schrijven van dit proefschrift was niet mogelijk geweest zonder de bijdrage van velen, in welke vorm dan ook, en een woord van dank is daarom op zijn plaats.

Allereerst gaat mijn dank uit naar dreamteam promotor Michiel van Groesen en copromotor Anita van Dissel. Anita maakte me tien jaar geleden niet alleen als tutor wegwijs op de universiteit, ze maakte me ook warm voor maritieme geschiedenis tijdens de colleges die ze met veel bezieling doceerde. Michiel bracht me zijn liefde voor historische cartografie en koloniale geschiedenis bij en is de coolste professor die ik ooit heb ontmoet. Michiel en Anita, duizendmaal dank voor de fantastische tijd. Dankzij jullie inhoudelijke begeleiding maar zeker ook alle praktische hulp en mentale steun kan ik met heel veel tevredenheid terugkijken op mijn promotietraject.

Ik prijs me gelukkig dat ik mijn onderzoek in teamverband kon uitvoeren en dat het schrijven van een proefschrift – een in essentie nogal eenzame taak – daarom helemaal niet eenzaam voelde. Ik heb genoten van de samenwerking binnen het projectteam Scheurrak SO1. Martijn, Roos en Rik, jullie hebben met jullie archeologische kennis dit proefschrift verrijkt en mijn horizon verbreed. Rik, dank dat je me onvermoeibaar keer op keer hebt uitgelegd hoe een zestiende-eeuws schip werd gebouwd en dat je me wegwijs hebt gemaakt in de wereld van steunders, hekbalken, spanten en mastsporen. Het was ongelooflijk fijn samen op te trekken en lief en leed van het promovendibestaan te delen.

Vier jaar lang liep ik rond op het Instituut voor Geschiedenis aan de Doelensteeg. Toen ik begon met mijn onderzoek in 2020, was de coronapandemie in volle gang. De gangen van het Huizingagebouw lagen er verlaten bij, maar ik zag elke ochtend steevast één gezicht. Patricia, ik kijk met een warm gevoel terug op vier jaar lang ‘Goedemorgen!’ en de vele lunchwandelingen. Alies, je was de leukste kamergenoot en ik dank je voor de vele gesprekken over het leven en de pepernoten. Rozemarijn, Eileen en Johan, zeegeschiedenisgenoten, jullie gezelligheid op het instituut en tijdens alle maritieme bijeenkomsten zal ik niet vergeten. Dank aan alle andere promovendi en collega’s uit Leiden voor de nodige praatjes bij de koffiemachine en in de binnentuin. Inge en collega’s van het secretariaat, fijn dat jullie er altijd waren om me door het doolhof van digitale systemen en administratie te leiden dat met het werken bij een grote organisatie gepaard gaat.

Veel mensen hebben zich in het verleden met Scheurrak SO1 beziggehouden en hun kennis was onmisbaar voor dit proefschrift. Thijs Maarleveld overleed helaas kort na de start van het project, maar het vele werk dat hij in de jaren tachtig en negentig heeft verricht was van groot belang voor dit onderzoek. Tevens heb ik veel gehad aan het werk van Martijn Manders, Alice Overmeer, Milja van Tielhof, Arent Vos en anderen die zich veertig jaar geleden al druk maakten om heidebezems, wagenwielen

en tondelen. Achter elk object uit Scheurrak SO1 gaat een kennisgebied schuil en ik heb dankbaar gebruik gemaakt van de expertise van specialisten. Een paar mensen wil ik hier in het bijzonder noemen: Sandra Comis, Mathieu Willemsen en Nicolás de Hilster, dank voor jullie hulp.

Een van de leukste dingen van dit project waren de dagen in het depot van Batavialand in Lelystad. Joran Smale en collega's, veel dank voor het faciliteren voor het onderzoek en jullie inspanningen om goed voor de Scheurrak SO1-collectie te zorgen. Dankzij het werk van Ton Penders en daarna Eric van der Vliet kon ik gebruik maken van prachtige objectfoto's voor dit proefschrift. De Rijkdienst voor het Cultureel Erfgoed stelde alle data voor dit onderzoek ter beschikking en maakte het Scheurrak SO1-project financieel mogelijk.

Tallose historici hebben me tijdens het onderzoek doen en schrijven geïnspireerd. Collega's uit Leiden, maar ook uit de bredere academische gemeenschap hebben geduldig al mijn vragen beantwoord, stukken meegelezen en me van literatuur- en archieftips voorzien. Cátia Antunes, Hanno Brand, Djoeke van Netten, Judith Pollmann en Yftinus van Popta dank ik voor hun bereidheid het eindresultaat aan een kritisch oordeel te onderwerpen. Mijn paranimfen Patricia en Simone ben ik dankbaar voor hun hulp en support in de aanloop naar de verdediging, het is een eer jullie aan mijn zijde te hebben.

Werk is tenslotte ook maar werk. Ik voel me gezegend met vele vrienden en familieleden die me met beide benen op de grond hielden. Mede door hen was het niet moeilijk om buiten kantoortijden mijn laptop dicht te houden en de boel de boel te laten. Het is onmogelijk om jullie allemaal bij name te noemen, maar jullie zijn geweldig. De meeste dank ben ik verschuldigd aan Flo, mijn grote liefde, die me onvoorwaardelijk steunde op deze reis. Jij laat me zien wat er echt toe doet in het leven en stimuleert me tegelijkertijd mijn dromen als historicus na te jagen.

Leiden, februari 2025

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- 3.3-15: From lead slabs the shot was made by help of ball pliers. NSD Batavialand, SO1-32642. Photo by Ton Penders.
- 3.3-16: Three gunpowder containers or *apostels*. NSD Batavialand, SO1-14614-1, SO1-14614-2, and SO1-32234. Photo by Wytze Stellingwerf.

- 3.3-17: A soldier carrying a bandoleer with twelve *apostels*, 1597-1607. Image in: Jacob de Gheyn, *Wapenhandelinghe van Roers, Musquetten ende Spiessen* etc. (Amsterdam 1608) part II (on the muskets), figure 23. Rijksmuseum, NG-2016-65-66.
- 3.3-18: A selection of the many wooden spars recovered from the wreck, some of them with rebates for ironwork. NSD Batavialand, SO1-32530. Photo by Ton Penders.
- 3.3-19: A soldier with a pike. On top of the wooden pole is an iron blade attached. Image in: De Gheyn, *Wapenhandelinghe van Roers, Musquetten ende Spiessen* etc., part III (on the pikes), figure 20. Rijksmuseum, NG-2016-65-106.
- 3.4-1: A sample of ox bones found in a barrel at the orlop deck. NSD Batavialand, SO1-1434-1. Photo by Ton Penders.
- 3.4-2: Two coopers making barrels. Fragment of the print 'The cooper' by Jan Luyken, 1694. Rijksmuseum, RP-P-OB-44.496.
- 3.4-3: One of the samples of stockfish bones from fish barrel 1. NSD Batavialand, SO1-1230-1. Photo by Ton Penders.
- 3.4-4: Smoking, packing, and gibbing herring. Print by Claes Jansz Visscher II, ca. 1611-1613. Rijksmuseum, RP-P-OB-80.774.
- 3.4-5: The Amsterdam Weigh House. Print by Claes Jansz Visscher II, ca. 1601-1612. Rijksmuseum, RP-P-AO-25-15.
- 3.4-6: A baker and his apprentice making bread. Print by Jan Gillesz van Vliet, 1635. Rijksmuseum, RP-P-OB-103.718.
- 3.4-7: The nutmeg found in toolbox SO1-8501. NSD Batavialand, SO1-8501[-030]. Photo by Eric van der Vliet.
- 3.4-8: Fourteen staves and two bottoms forming a complete barrel recovered from the wreck. One of the staves had a hole, in which, after the plug was removed, a tap could be inserted. NSD Batavialand, SO1-50000. Photo by Ton Penders.
- 3.4-9: One of the brass taps from Scheurrak SO1, provided with a maker's mark from Nuremberg. NSD Batavialand, SO1-37058. Photo by Ton Penders.

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- 4.0-1: The poem on Cornelis Claesz' lintstock. NSD Batavialand, SO1-23222. Photo by Els Zweerink.
- 4.0-2: Timen Marte's handle. NSD Batavialand, SO1-23013-14. Photo by Ton Penders.
- 4.0-3: Handle with the text 'ICK AEPKEN ROW'. NSD Batavialand, SO1-23013-13. Photo by Ton Penders.

- 4.1-1: The human bone fragments found in the wreck. NSD Batavialand, SO1-36004 (*cranium*), SO1-32373 (*phalanx II anterior*), SO1-27050 (2x *cranium*), SO1-34031 (*sacrum*), and SO1-37081 (*cranium*). Photo by Eric van der Vliet.
- 4.1-2: The nautical lesson, possibly Le Canu is depicted as teacher here. Frontispice of Willem Jansz Blaeu, *Licht der Zeevaart* (Amsterdam 1608). Dutch National Maritime museum, S.1496l.
- 4.1-3: The nautical lesson by Petrus Plancius. Frontispice of J.A. Colom, *Groote Lichtende ofte Vyerighe Colom* (Amsterdam 1652). Rijksmuseum, RP-P-OB-16.089.
- 4.1-4: Petrus Plancius at the age of 70. Print by Willem Jacobsz Delff, with a poem by Antonius Fayus, 1623. Rijksmuseum, RP-P-BI-6903.
- 4.1-5: Roemer Visscher's idea of a good steersman. Roemer Pietersz Visscher, *Sinnepoppen* (3rd edition, Amsterdam 1614) 141. Rijksmuseum, BI-1893-3539-147.
- 4.2-1: View on Hoorn, 1622. Painting by Hendrick Cornelisz Vroom, 1622. Westfries Museum, 01729.
- 4.2-2: View on Hoorn's harbour, with many structures and objects depicted that relate to the towns fisheries and shipbuilding activities. Painting by Mathias Withoos, 1627-1703. Westfries Museum, 01739.
- 4.2-3: Hoorn prior to the urban expansion of 1576-1577. Lithographic copy of the map of Hoorn by Jacob van Deventer dated 1560, by J. Smulders & Co, 1950. Westfries Archief, 05031.
- 4.2-4: Hoorn in the 1580s. On the very left, the new Karperkuil harbour is visible, as well as the new shipyards. Map by an anonymous maker, 1584-1590. Westfries Archief museum, 06492.
- 4.2-5: Enkhuizen in the late 1570s. Map by Lucas Jansz Waghenaeer, 1577. Maritime Museum Rotterdam, K6105.
- 4.2-6: Enkhuizen in the early seventeenth century. Map by Balthasar Floris van Berckenrode, 1623. Westfries Archief, 1b087.
- 4.3-1: Section of the sailor coat (*bolkvanger*). NSD Batavialand, SO1-10031[-002]. Photo by Ton Penders.
- 4.3-2: The linen shirt recovered from the Nova Zembla site. Rijksmuseum, NG-NM-9464.
- 4.3-3: The seafarers of Nova Zembla. The man in the front wears a smock. Fragment of a copy of one of the images included in Gerrit de Veer's report on the wintering at Nova Zembla (1598), ca. 1615-1617. Rijksmuseum, RP-P-OB-80.213.
- 4.3-4: One of the fragments of a possible second sailor coat, with tar, a button hole, and a clasp. NSD Batavialand, SO1-23111C. Photo by Ton Penders.

- 4.3-5: The remains of woven woollen breeches. NSD Batavialand, SO1-6615-2. Photo by Ton Penders.
- 4.3-6: A clod with remains of garments, some textiles have silk fringes and are coloured with cochineal. NSD Batavialand, SO1-32716-2. Photo by Ton Penders.
- 4.3-7: Decorative silk ribbons. NSD Batavialand, SO1-2603[-001]. Photo by Ton Penders.
- 4.3-8: A complete felt hat with damask silk lining on the inside. NSD Batavialand, SO1-24181. Photo by Ton Penders.
- 4.3-9: A woollen mitten, two fragmented leather mittens, and a thumb of a third leather exemplar. NSD Batavialand, SO1-23343, SO1-32119, and SO1-1426-4. Photo by Ton Penders.
- 4.3-10: Two of the leather bags. NSD Batavialand, SO1-32198-3. Photo by Ton Penders.
- 4.3-11: Tailors at work. 'Der Schneider', woodcut by Jost Amman in: Hans Sachs, *Eygentliche Beschreibung aller Stände auff Erden* (Frankfurt am Main 1568).
- 4.3-12: The finds from toolbox SO1-23013 related to clothing repairing. NSD Batavialand, SO1-23013[-011], SO1-23013[-012], SO1-23013[-013], SO1-23013[-014], SO1-23013-4, SO1-23013-5, and SO1-23013-7. Photo by Eric van der Vliet.
- 4.3-13: The finds from toolbox SO1-8501 related to clothing repairing. NSD Batavialand, SO1-8501[-001], SO1-8501[-019], SO1-8501[-022], SO1-8501[-023], SO1-8501[-024], SO1-8501[-027], SO1-8501[-031], and SO1-8501[-038]. Photo by Eric van der Vliet.
- 4.3-14: A spool with fine yarn. NSD Batavialand, SO1-14800-2. Photo by Ton Penders.
- 4.3-15: A strap closure shoe with decorative cutting patterns. NSD Batavialand, SO1-3428. Photo by Ton Penders.
- 4.3-16: A slip-on shoe with decorative cutting patterns. NSD Batavialand, SO1-8478-5. Photo by Ton Penders.
- 4.3-17: A complete knee-high boot. NSD Batavialand, SO1-23014. Photo by Ton Penders.
- 4.4-1: The reconstructed booklet. NSD Batavialand, SO1-14806[-001]. Photo by Ton Penders.
- 4.4-2: Title page of (a later edition of) Westerman's vademecum (1611). Adam Westerman, *Groote Christelijcke Zeevaert, in XXVI Predikationen, in maniere van een zee-postille* (Amsterdam 1660).
- 4.4-3: The graffiti on toolbox SO1-8501: a compass rose and hexafoils. NSD Batavialand, SO1-8501. Photo by Joran Smale.

- 4.4-4: The hexafoils on toolbox SO1-23013. NSD Batavialand, SO1-23013. Photo by Joran Smale.
- 4.4-5: The ships and hexafoils on the underside of the lid of toolbox SO1-23013. NSD Batavialand, SO1-23013. Photo by Joran Smale.
- 4.4-6: Scheurrak SO1's personalized tools with wolf heads. NSD Batavialand, SO1-23222, SO1-1531, SO1-23013-6, and SO1-23013[-014]. Photo by Eric van der Vliet.
- 4.4-7: The Italian mathematician Flavio Goija is depicted in his study room behind his desk. On the ceiling hangs a model of a galleon. Painting 'Lapis Polaris' by an unknown maker after prints by Philip Galle, after a design by Jan van der Straat, ca. 1600-1700. National Museum Warsaw, M.Ob.739 MNW.
- 4.4-8: One of the maritime themed poems in *Sinnepoppen* (1614). Roemer Pietersz Visscher, *Sinnepoppen* (3rd edition, Amsterdam 1614) 108. Rijksmuseum, BI-1893-3539-114.
- 4.4-9: One of Vroom's scenes of a ship on a stormy sea. Print by Broer Jansz after a design by Hendrick Cornelisz Vroom, ca. 1600. Rijksmuseum, RP-P-OB-80.496.

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- 5.1-1: The presumed beaconnage coin. NSD Batavialand, SO1-37127. Photo by Ton Penders.
- 5.1-2: The coastal transport zone of the North Sea. Lucas Jansz Waghenaer, *Spiegel der Zeevaerdt* (Leiden 1584). Dutch National Maritime Museum, S.3034 [chart 009].
- 5.1-3: The course of the ships was plotted relative to the buoys and beacons in the estuary. Image in Roemer Pietersz Visscher, *Sinnepoppen* (3rd edition, Amsterdam 1614)15. Rijksmuseum, BI-1893-3539-21.
- 5.1-4: The different sea and landmarks as explained in the *Spiegel der Zeevaerdt*. Lucas Jansz Waghenaer, *Spiegel der Zeevaerdt* (Leiden 1594) 1. Utrecht University Library, P fol 111 Lk (rariora).
- 5.1-5: The conical buoys that marked the waterways. Roemer Pietersz Visscher, *Sinnepoppen* (3rd edition, Amsterdam 1614) 31. Rijksmuseum, BI-1893-3539-37.
- 5.1-6: One of the so-called kapen, wooden constructions that marked the inlets of the estuary. Roemer Pietersz Visscher, *Sinnepoppen* (3rd edition, Amsterdam 1614) 119. Rijksmuseum, BI-1893-3539-125.
- 5.1-7: A façade stone depicting the wax seal of Oost-Vlieland granted by States of Holland and West Frisia in 1590. Photo from gevelstenen.nl.

- 5.1-8: Jan van Scorel's map of 1552 depicts the area around the Marsdiep inlet, with Texel's roadstead and the surrounding settlements. Map of Texel and Zijpe, created for the patent request of the embankment of the Zijpe inlet, later the Zijpe polder, by Jan van Scorel, ca. 1552. Dutch National Archives, Map collection of Johannes Hingman (4.VTH), inv. 2486.
- 5.1-9: Fish mongers selling their products at a Holland roadstead in the early seventeenth century. Painting 'Ships at a roadstead in Holland' by Adam Willaerts, 1627. Dutch National Maritime Museum, S.4165.
- 5.2-1: A bottom of an hourglass. Each exemplar had two bottoms connected with six wooden staves, in between which the glass cones with sand were kept. NSD Batavialand, SO1-11001. Photo by Ton Penders.
- 5.2-2: A complete binnacle of a mariner's compass. NSD Batavialand, SO1-32292-1. Photo by Ton Penders.
- 5.2-3: A wooden disk with needle that held the compass rose. NSD Batavialand, SO1-32292. Photo by Ton Penders.
- 5.2-4: The mariner's compass around 1600 as depicted in *Sinnepoppen*. Roemer Pietersz Visscher, *Sinnepoppen* (3rd edition, Amsterdam 1614) 6. Rijksmuseum, BI-1893-3539-12.
- 5.2-5: One of the two sounding leads with a part of the lead line attached. NSD Batavialand, SO1-32520. Photo by Ton Penders.
- 5.2-6: Scheurrak SO1's cross-staffs: two transoms and five staff fragments. NSD Batavialand, from left to right: SO1-14885, SO1-14778B, SO1-8110, SO1-11002A, SO1-23199, SO1-11002B, and SO1-14778A (down). Photo by Nicolàs de Hilster.
- 5.2-7: Using a cross-staff. Fragment in Govaert Willemsen van Hollesloot, *Caerte van de Oost ende Westzee* (2nd edition, Amsterdam 1594). Dutch National Maritime Museum, S.1227 [chart 004].
- 5.2-8: The distribution of navigational instruments at the wreck site. Map by Roos van Oosten.
- 5.2-9: One of the two recovered whipstaffs. The ring was connected to the tiller, which was in turn, attached to the ship's rudder. NSD Batavialand, SO1-7203. Photo by Ton Penders.
- 5.3-1: A reconstruction drawing of Scheurrak SO1's oven. Diving report by Arent Vos of 19 August 1989.
- 5.3-2: One of the glazed tiles of the oven. NSD Batavialand, SO1-1569. Photo by Ton Penders.
- 5.3-3: A complete *baardman* jar. NSD Batavialand, SO1-11003. Photo by Ton Penders.

- 5.3-4: A complete earthenware jar with rosettes. NSD Batavialand, SO1-14717. Photo by Ton Penders.
- 5.3-5: Three small complete jars. NSD Batavialand, SO1-15012, SO1-32410, and SO1-1357. Photo by Ton Penders.
- 5.3-6: A complete green-coloured glass bottle with a tin cap, SO1-14738. Photo by Ton Penders.
- 5.3-7: One of the wicker storage baskets. NSD Batavialand, SO1-4309. Photo by Ton Penders.
- 5.3-8: The birch logs were stowed in the hold by help of bulkheads. Diving report by Marek Habrov of 2 August 1990.
- 5.3-9: One of the large copper cauldrons used inside Scheurrak SO1's oven. Museum Kaapskil, inv. 2664]. Photo by Wytze Stellingwerf.
- 5.3-10: A redware *grape*. NSD Batavialand, SO1-1507. Photo by Ton Penders.
- 5.3-11: A metal *grape*. NSD Batavialand, SO1-1509. Photo by Ton Penders.
- 5.3-12: The bowl of a brass serving spoon, with traces of the handle on the right. NSD Batavialand, SO1-1500. Photo by Ton Penders.
- 5.3-13: A deep plate made of turned wood. NSD Batavialand, SO1-9138. Photo by Ton Penders.
- 5.3-14: A *teljoor*, used to cut solid food on. NSD Batavialand, SO1-1622. Photo by Ton Penders.
- 5.3-15: Fourteen tin spoons. NSD Batavialand, from left to right: SO1-50012, SO1-1718-1, SO1-1534-3, SO1-1534-1, SO1-1541-1, SO1-1718-2, SO1-2404, SO1-1713, SO1-1534-2, SO1-1541-2, SO1-11022-3, SO1-11022-4, SO1-11022-2, and SO1-11022-1. Photo by Eric van der Vliet.
- 5.3-16: A Tudor rose mark on one of the spoons. NSD Batavialand, SO1-1534-2. Photo by Joran Smale/Eric van der Vliet.
- 5.3-17: One of the 61 heather hand sweepers. NSD Batavialand, SO1-8494. Photo by Ton Penders.
- 5.3-18: The presumed chess piece and marble. NSD Batavialand, SO1-14771[-001] and SO1-14257. Photo by Joran Smale.
- 5.3-19: Scheurrak SO1's lice combs. NSD Batavialand, SO1-23013-3 and SO1-1533. Photo by Joran Smale.
- 5.3-20: A pocket mirror. NSD Batavialand, SO1-8501[-036]. Photo by Eric van der Vliet.
- 5.3-21: A complete chamber pot. NSD Batavialand, SO1-11014. Photo by Ton Penders.
- 5.3-22: A skull of a black rat found in the wreck. NSD Batavialand, SO1-32498. Photo by Ton Penders.

- 5.3-23: The ointment box as depicted in *A Prooved Practise*. William Clowes, *A Prooved Practise for all Young Chirurgians* (London 1588) 91. Wellcome Museum London.
- 5.3-24: A redware ointment pot. NSD Batavialand, SO1-1536. Photo by Ton Penders.
- 5.3-25: A whiteware ointment pot. NSD Batavialand, SO1-14740. Photo by Ton Penders.
- 5.3-26: A fragment of a maiolica ointment pot. NSD Batavialand, SO1-37101. Photo by Ton Penders.
- 5.4-1: The recovered board section of Scheurrak SO1's port side. NSD Batavialand, SO1-BD2. Photo by Ton Penders.
- 5.4-2: A jeton owned by the Admiralty of Zeeland on the storm of 1593. Dutch National Maritime Museum, A.0027(020).